



**1. CHEMICAL IDENTIFICATION AND COMPANY INFORMATION**

PRODUCT NAME: L3Basal Salt Mixture  
 PRODUCT NUMBER: L5494  
 COMPANY INFO: PhytoTech Labs Inc.  
 14610 W 106<sup>th</sup> St. Lenexa, KS 66215  
 Phone: 1-888-749-8682 or 1-913-341-5343; Fax: 1-888-449-8682 or 1-913-341-5442  
 www.phytotechlab.com

EMERGENCY PHONE NUMBER 1-800-535-5053 - US Only  
 (INFOTRAC): 1-352-323-3500 - International

RECOMMENDED USE: For Research Use Only

RESTRICTIONS ON USE: Products sold by PhytoTech Labs Inc. are intended for research and laboratory use only. Products are not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, in vitro diagnostics, or as household chemicals.

**2. HAZARDS IDENTIFICATION**

**Classification of the substance or mixture:**

GHS Classification:

- H272 – Oxidizing solids (Category 3)
- H315 – Skin irritation (Category 2)
- H319 – Eye irritation (Category 2A)
- H335 – Specific target organ toxicity – single exposure – Respiratory system (Category 3)

**GHS Label elements, including hazard and precautionary statements:**

Pictogram:



Signal Word: **Warning**

Hazard Statements:

- H272 – May intensify fire; oxidizer.
- H315 – Causes skin irritation.
- H319 – Causes serious eye irritation.
- H335 – May cause respiratory irritation.

Precautionary Statements:

- P221 – Take any precaution to avoid mixing with combustibles.
- P280 – Wear protective clothing/protective gloves/eye protection.
- P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Hazards not otherwise classified (HNOC) or not covered by GHS: - none**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a mixture that contains, but is not limited to, the following components that may cause harm to the user or environment or may be suspected to do so:

Ingredient	CAS Number	Percent	Hazardous
Ammonium Nitrate	6484-52-2	37.89 %	No exposure limits established by OSHA or ACGIH
Potassium Nitrate	7757-79-1	42.35 %	No exposure limits established by OSHA or ACGIH
EDTA, Disodium Salt, Dihydrate	6381-92-6	1.25 %	No exposure limits established by OSHA or ACGIH
Cobalt Chloride, Hexahydrate	7791-13-1	0.0056 %	ACGIH TLV: 0.02 mg (Co)/m <sup>3</sup>
Cupric Sulfate, Pentahydrate	7758-99-8	0.0056 %	NIOSH REL: 1 mg/m <sup>3</sup>
Sodium Molybdate(VI), Dihydrate	10102-40-6	0.056 %	OSHA PEL: 5 mg(Mo)/m <sup>3</sup> ; ACGIH TLV: 0.5 mg(Mo)/m <sup>3</sup>
Manganese Sulfate, Monohydrate	10034-96-5	1.67 %	OSHA PEL: 5 mg (Mn)/m <sup>3</sup> ; ACGIH TLV: 0.2 mg (Mn)/m <sup>3</sup>
Potassium Iodide	7681-11-0	0.17 %	ACGIH TLV: 0.01 mg/m <sup>3</sup>

#### 4. FIRST AID MEASURES

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Route of Entry	Symptoms	First Aid Procedures
Ingestion	May cause irritation if swallowed	If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. <b>Get medical attention.</b>
Inhalation	May cause irritation to respiratory tract	Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. <b>Get medical attention.</b>
Eye Contact	Direct contact may cause irritation. May cause redness, tearing, or blurred vision.	Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. <b>Get medical attention if irritation persists.</b>
Skin Contact	Irritating. May cause reddening, itching or inflammation.	Wash area thoroughly with soap and water. Remove and wash contaminated clothing. <b>Get medical attention if irritation persists.</b>

Most Important Symptoms or Effects, Both Acute and Delayed:

See section 2 and/or section 11

Recommendation for Immediate Medical Care and Special Treatment Needed:

No data available

#### 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, dry chemical powder, or appropriate foam. Use extinguishing media suitable for surrounding fire.

Special Protective Equipment and Precaution for Firefighters: In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus. Evacuate the area and fight fire from a safe distance.

Hazardous Combustion Products: No data available

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protection recommended in Section 8. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method of Containment and Cleanup: Wear suitable protective clothing. Avoid dust formation. Carefully sweep up and remove. Place material in a dry container and cover. Remove from the area. Flush spill area with water. Do not let products enter drains.

#### 7. HANDLING AND STORAGE

Precaution for Safe Handling: Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Keep away from combustible materials. Wash thoroughly after use.

Conditions for Safe Storage: Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Protect from moisture.

Incompatibilities: No data available

Recommended Storage Temperature: 2-8°C

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA's Permissible Exposure Limits (PELs): Manganese Sulfate, Monohydrate: 5 mg (Mn)/m<sup>3</sup>  
Sodium Molybdate(VI), Dihydrate: 5 mg (Mo)/m<sup>3</sup>

ACGIH Threshold Limit Values (TLVs): Sodium Molybdate(VI), Dihydrate: 0.5 mg (Mo)/m<sup>3</sup>  
Cobalt Chloride, Hexahydrate: 0.02 mg (Co)/m<sup>3</sup>  
Manganese Sulfate, Monohydrate: 0.2 mg (Mn)/m<sup>3</sup>  
Potassium Iodide: 0.01 mg/m<sup>3</sup>

Engineering Controls: Handle in accordance to general industrial hygiene and safety practice.

Personal Protective Equipment (PPE):

Eye/Face Protection: Chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.

Skin Protection: Protective gloves

Body Protection: Lab coat

Respiratory Protection: Respiratory protection is not required.  
Use N95 (US) or type P1 (EN 143) dust mask where dust level is nuisance.  
A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by purifying respirators is limited.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-White to Yellow Powder

pH (4.49 g/L): In Development

Solubility: Soluble in Water

Melting Range: No data available

Vapor Density: No data available

Vapor Pressure: No data available

Specific Gravity: No data available

Odor: Odorless

Odor Threshold: No data available

Viscosity: No data available

Relative Density: No data available

Evaporation Rate: No data available

Initial Boiling Point and Boiling Range: No data available

Flammability (solid, gas): No data available

Partition coefficient: n-octanol/water): No data available

Auto-ignition Temperature: No data available

Decomposition Temperature: No data available

Flash Point (Closed Cup): No data available

Flammable Limits: Upper (%) – No data available Lower (%) – No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use

Possibility of Hazard Reactions: No data available.

Conditions to Avoid: No data available.

Incompatibles Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Sulphur oxides, Hydrogen chloride gas,

## 11. TOXICOLOGICAL INFORMATION

Toxicity: LD<sub>50</sub> (Oral-Rat)(mg/Kg): No data available  
LD<sub>50</sub> (IP-Mouse)(mg/Kg): No data available  
LD<sub>50</sub> (Dermal-Rabbit)(mg/Kg): No data available

Carcinogenicity: NTP: No  
IARC: No  
OSHA Reg: No

Reproductive Toxicity: No data available

Specific Target Organ Toxicity: Single Exposure: No data available  
Repeated Exposure: No data available

Target Organs: No data available

Routes of Entry: Ingestion, inhalation, skin and eye contact

NIOSH/RTECS NO: Not listed

***To the best of our knowledge the toxicological properties of this product have not been thoroughly investigated.***

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

## 13. DISPOSAL CONSIDERATION

Disposal Procedure: Dispose in accordance with all applicable federal, state, and local environmental regulations.

## 14. TRANSPORT INFORMATION

Domestic (D.O.T.): Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)  
Hazard Class: N/A  
UN/NA: N/A  
Labels: N/A

International:

IMDG: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)  
Hazard Class: N/A  
UN/NA: N/A  
Labels: N/A

IATA: Proper Shipping Name: CHEMICALS, N.O.S. (NON-REGULATED)  
Hazard Class: N/A

UN/NA: N/A

Labels: N/A

## 15. REGULATORY INFORMATION

**TSCA:** No

### SARA TITLE III:

Section 302 (EHS) Ingredients: No

Section 313 Ingredients: Yes

	CAS No.
Ammonium Nitrate	6484-52-2
Potassium Nitrate	7757-79-1

Section 304 (EHS/CERCLA) Ingredients: No

Section 311/312 Hazard: Acute Health Hazard, Chronic Health Hazard, Reactivity Hazard

**California Proposition 65 List:** None of the components in this product are known to cause cancer or reproductive toxicity

### Massachusetts Right To Know Components:

	CAS No.
Ammonium Nitrate	6484-52-2
Potassium Nitrate	7757-79-1

### New Jersey Right to Know Components:

	CAS No.
Ammonium Nitrate	6484-52-2
Potassium Nitrate	7757-79-1

### Pennsylvania Right to Know Components:

	CAS No.
Ammonium Nitrate	6484-52-2
Potassium Nitrate	7757-79-1
Manganese Sulfate	10034-96-5

## 16. OTHER INFORMATION

HMIS Rating:

Health	Flammability	Physical Hazard	Personal Protection
2	0	2	B

NFPA Rating:

Health	Fire Hazard	Instability	Special Hazard
2	0	2	OX

**PhytoTech Labs Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. The above information is intended to be used only as a guide to the appropriate precautionary handling of this material by a properly trained person. PhytoTech Labs Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This product is intended for LABORATORY USE ONLY. Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticidal products, food additives or as household chemicals.**

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